

ETW MACHINE

ET40

Concrete Surface Preparation Machine



Preface

Thank you for using ETW brand series of dry and wet concrete surface preparation machine. This model is ET40 with an external power supply of 220-240V and a grinding area of 450mm.

ET series floor grinding machine is a new generation of planetary disk floor grinding machine independently developed by our company. This floor grinding renovation equipment has remarkable grinding effect. It integrates grinding, refurbishing, polishing, crystal surface cleaning and other multi-functions into one, greatly improves the renovation and maintenance efficiency of concrete, stone and epoxy floor, meets the current high standard requirements for floor surface treatment and maintenance, and greatly saves construction time and cost.

This manual provides a detailed description of the use, maintenance, precautions, fault diagnosis and countermeasures of ET series grinding machines. [This manual is a guiding document for you to use correctly to play the superior performance and safe operation of the product.](#)

[If you have any problems or special requirements, please contact us at any time. We will serve you wholeheartedly.](#)

We has been committed to continuous innovation and improvement of equipment. If the relevant information of this model has been changed, our company will update it as soon as possible. We apologize for any inconvenience caused.

Catalog

Preface.....	1
Chapter 1 Important Safe Guards.....	3
1.1 Safety Guidelines.....	3
1.2 Precautions.....	3
Chapter 2 Purchase Inspection, Technical Parameters and Product Description.....	4
2.1 Purchase Inspection.....	4
2.2 Technical Parameters.....	4
2.3 Product Description.....	5
Chapter 3 Operation Instruction.....	6
3.1 Preparations Before Operation.....	6
3.2	
Optional Approach.....	6
Chapter 4 Equipment Wiring.....	6
4.1 Wiring Notice.....	6
4.2 Wiring Diagram.....	7
Chapter 5 Equipment Maintenance And Overhaul.....	7
5.1 Maintenance&Overhaul.....	7
Chapter 6 Quality Assurance.....	8
6.1 Scope And Duration of Warranty.....	8

6.2 Warranty Conditions.....8

Chapter 7 Simple Troubleshooting.....8

Chapter 1 Important Safe Guards

In order to ensure the safety of person, equipment and property, please read this manual carefully before using the machine. **And this manual shall be strictly followed during handling, installation, commissioning, operation and maintenance.**

1.1

Safety Guidelines

【1】: Operators must wear waterproof and insulating work shoes and gloves. Barefoot operation of the equipment is strictly prohibited to prevent casualties caused by electrical leakage.

【2】: External connection line should be more than 6 square and must be grounded to prevent leakage.

【3】: Before using the equipment, you must carefully check whether the power cord is damaged or aging. If there is such phenomenon, you should immediately replace the power cord to prevent short circuit leakage of the equipment.

【4】: When using the equipment, do not crush the wire, causing damage to the wire, resulting in safety risks.

【5】: When using the equipment, please do not plug and unplug the plug with wet hands to avoid electric shock and injury.

Precautions

【1】: After dry and wet grinding, the bottom of the equipment should be cleaned .

【2】: When dry grinding, please connect the vacuum cleaner to ensure dust-free operation, reduce the load of the frequency converter, and ensure the normal operation of the equipment.

【3】: Make sure the power switch is off before moving the machine.

【4】: In the process of replacing supplies and handling the equipment, please be sure to gently handle the equipment to avoid oil leakage caused

by improper operation of the gear box. If one person cannot complete the operation, please assign multiple people to cooperate to complete the operation.

【5】 :The inverter may produce resonance within a certain output frequency range, which may cause the equipment to stop working. In this case, please avoid the resonant frequency operation.

【6】 :When working on the floor with a large floor drop, please be sure to grind from high to low to avoid damaging the grinding disc and gear box due to a large drop.

【7】 : Check the grinding disc regularly. If the grinding disc is loose, please maintain it in time.

【8】 : In the grinding process, please pay attention to whether there is any prominent or serious grooves of reinforcement on the ground. If there is such a situation, please avoid grinding and notify relevant personnel to deal with it immediately to prevent damage of the machine gear box due to impact.

Chapter 2 Purchase Inspection, Technical Parameters and Product Description

2.1 Purchase Inspection

【1】 : Please check whether the packing of the product is damaged by careless transportation before unpacking the case.

【2】 :Check whether the specification and model of the product are consistent with the ordered machine model.

【4】 : Inspect the machine for any internal damage. If there is obvious damage, please stop , and contact our company or the distributor in time.

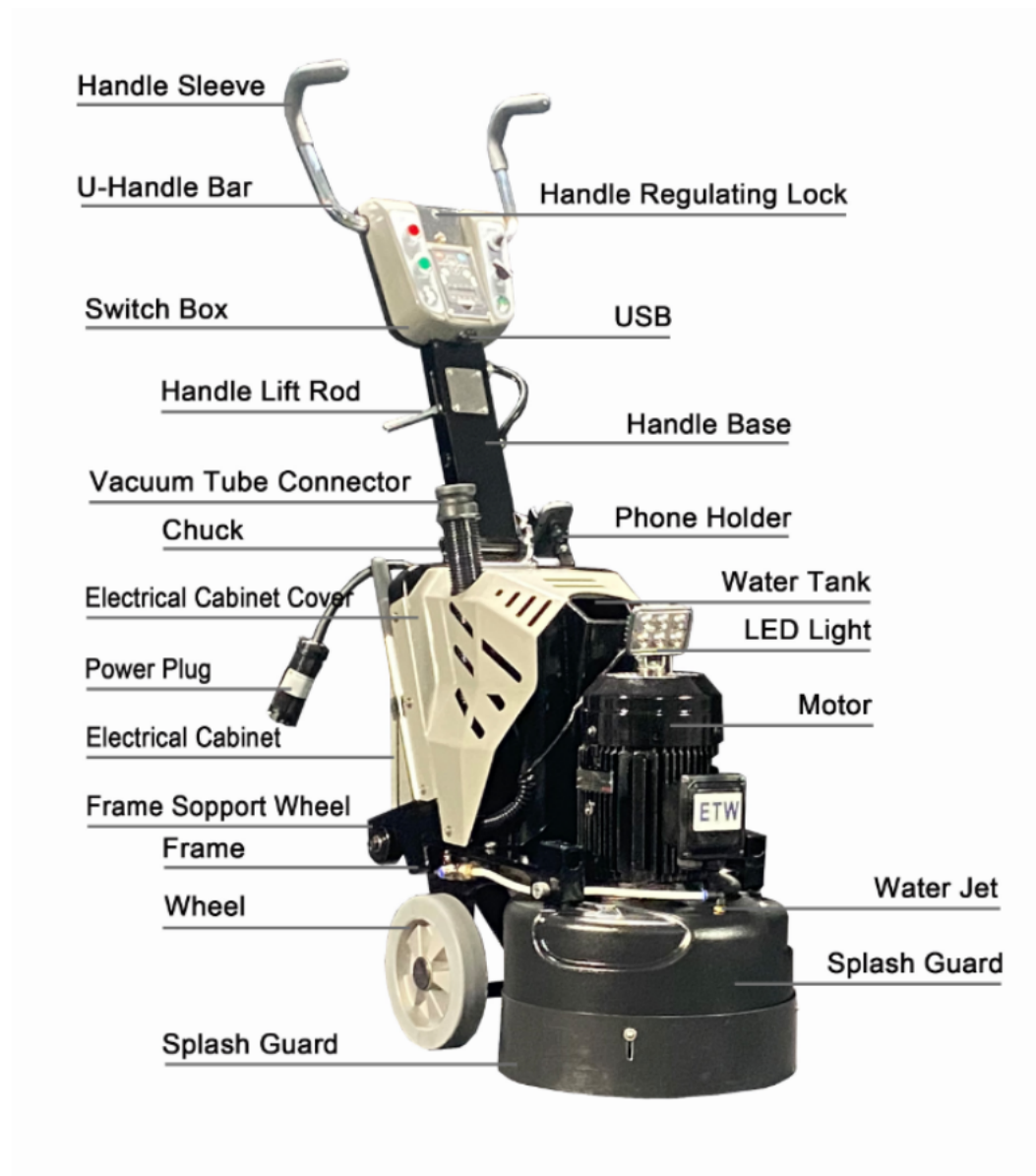
【5】 :Check if the mountings are complete, including one machine and standard accessories.

Technical Parameters

Model	ET40
Voltage	1 × 220–240V
Motor	4KW
Electric Current	10–16A
Inverter	5.5KW
Frequency	50/60HZ
Revolving Speed	300–1200rpm
Operating Width	450mm
Abrasive disc	200mm × 3
Tank Volume	15L
Weight	225KG
Overall	870 × 450 × 850mm

2.3 ET40

Description of ET40 Product Components



Operation Instruction

3.1

Preparations Before Operation

- 【1】: Check the 220V power supply in the workplace;
- 【2】: Install the appropriate plug and switch on the power supply;
- 【3】: Install supporting **velcro adapters and tools or resin pads**;
- 【4】: Put down the machine gently;

3.2

Optional Approach

【1】 : In case of dry grinding, please connect the vacuum cleaner to ensure dust-free operation.

【2】 Adjust the handle to the proper position;

【3】 : Press the start switch, and the handle can be adjusted to the proper position again, so that the machine operation is more stable;

【4】 : According to the actual situation of the floor, adjust the speed regulating knob to achieve better working conditions.

Chapter 4 Equipment Wiring

When wiring the equipment, please be sure to operate in strict accordance with the following instructions to avoid unnecessary losses.

4.1 Wiring Notice

【1】 : If you **want to connect wirings yourself**, you must be guided by professional electricians or technical personnel of the manufacturer.

【2】 :The electrical system of this equipment must strictly comply with the parameters (voltage, frequency) marked on the nameplate of the machine. Before connecting to the input power supply, please check and ensure that the voltage and frequency of the external input power supply are consistent.

【3】 :This equipment must be connected to a power supply system equipped with electrical grounding to protect the operator from electric shock.

【4】 :Please connect the plug to a suitable power socket. The green and yellow core wire in the power cord is the ground electrode. It is strictly prohibited to connect the ground wire to a non-power socket.

4.2 Wiring Diagram of **ET40**

Chapter 5 Equipment Maintenance And Overhaul

5.1 Maintenance & Overhaul

【1】 : Check the grinding disc before use. If the grinding disc or screw is loose, tighten the screws and nuts in time to avoid uneven wear of the abrasive.

【2】 :During the grinding, please pay attention to the loss of grinding material, so as the grinding plates do not touch the ground, resulting in damages.

【3】 : The **vent hole should not be blocked when in using** . Please notice to clean up in time when blocked, and ensure the normal ventilation of the motor.

【4】 : **After 20 days of use, please clean up the dust in the inverter and** work after troubleshooting. If the equipment is dry grinding without a vacuum cleaner connection, it should be cleaned **every 2** days.

【5】: **Please change the gear oil L-CKC220#, 2.5L regularly. The gear oil** needs to be changed once the first grinding time of the new machine is 50 hours, and then every six months.

【6】 : After using the equipment, power off and clean the equipment shell, and place it in a dry and cool place for the sake of increasing the service life of the machine.

Chapter 6 Quality Assurance

6.1 Scope And Duration of Warranty

From the date of purchase, motor, frequency converter and gear box can be guaranteed for 1 year, while wearing parts such as shelves, handles, **plates**, etc. can be guaranteed for three months.

6.2

Warranty Conditions:

【1】 :If the warranty parts are damaged not because of improper operation within the warranty period, they will be repaired and replaced free of charge by the manufacturer.

【2】 : Purchaser must obtain the permission of the manufacturer and carry out repairs in accordance with the instructions, otherwise the manufacturer shall not bear any legal liability.

【3】 : If the equipment fails due to improper disassembly, our company will charge the maintenance fee.

【4】 : During the warranty period, the vulnerable parts are judged to be deliberately damaged, which is not within the scope of the warranty.

【5】 : If the motor and inverter are burnt out or damaged due to abnormal voltage during operation (for example, the voltage range of ET40 is 220V-240V, and the construction voltage is 380-440V three-phase, which is abnormal voltage for this equipment), it is not covered by the warranty.

【7】 : When our company has to send personnel to repair the machine due to the wrong wiring mode caused by the normal operation, if the inspection by the maintenance personnel is not the fault of the machine itself, the purchaser shall bear the travel expenses and labor costs within the warranty period.

Chapter 7 Simple Troubleshooting

If there is a sudden shutdown during the operation of the machine, please check according to the following methods:

display code	causes	resolvent
LU	bus undervoltage fault	Input voltage is too low, and internal circuit loose or poor contact
E009	heatsink OT	Inverter fan damaged. Replace fan
E0015	AC phase lack	Check the three-phase input voltage; internal circuit loose or poor contact

E0016	output out of phase	Inverter three-phase output is broken line and phase missing
E003	Inverter output overcurrent	The load is too heavy